

Appl. No. 10/706,104
Docket No. 9118M
Amdt. dated October 3, 2006
Reply to Office Action mailed on May 5, 2006
Customer No. 27752

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): An oral care dentifrice composition comprising:

- a. from about 1% to about 40%, by weight of the composition, of a retentive agent selected from the group consisting of water soluble hydrophilic gums, water soluble hydrophilic polymers, and mixtures thereof, the retentive agent having the property of hydrating upon exposure to water or saliva; and
- b. a topical, oral care carrier;

wherein the composition is a non-cariogenic, chewable solid unit dosage form; the composition forms an intact hydrated mass ~~to provide a Retention Index of about 1 to about 4,~~ that is visible on 2 to 3 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes after a human subject chews two tablets of the composition for about 5 to 30 seconds, brushes his or her teeth for about 30 seconds, expectorates the slurry created from the brushing, and then rinses with about 10 mils of water and expectorates again, and the composition comprises less than about 65% by weight of water insoluble particulates.

Claim 2 (currently amended): The composition of claim 1 wherein ~~the Retention Index is from about 2 to about 4~~ the intact hydrated mass is visible on 4 to 5 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes.

Claim 3 (original): The composition of claim 1 wherein from about 0.5% to about 20% by weight of the initial composition deposits in some of the tooth surfaces after chewing by the subject.

Claim 4 (original): The composition of claim 1 wherein the retentive agent is at a level of from about 7% to about 30%, by weight of the composition.

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Claim 5 (original): The composition of claim 4 wherein the retentive agent is at a level of from about 11% to about 18%, by weight of the composition.

Claim 6 (currently amended): The composition of claim 1 wherein the retentive agent is selected from the group consisting of acacia, karaya gum, guar gum, gelatin, alginic acid and salts thereof, tragacanth, polyethylene glycol, polyethylene oxide, acrylamide polymers, cross linked polyacrylic acid, polyvinyl alcohol, ethylene oxide polymers, polyvinylpyrrolidone, cationic polyacrylamide polymers, carboxymethylcellulose, ~~hydroxyethylcellulose~~, hydroxypropylcellulose, hydroxy-propylmethylcellulose, xanthan gum, carrageenan, locust bean gum, gum Arabic, tragacanth gum, pullulan, pre-gelatinized and partially pre-gelatinized starch, hydrolyzed starch, maltodextrin and corn syrup solids, hydrogenated maltodextrin, ~~hydrogenated starch hydrosylates~~, amylose, amylopectin, and mixtures thereof.

Claim 7 (currently amended): The composition of claim 6 wherein the retentive agent is selected from the group consisting of hydroxy-propylmethylcellulose, ~~hydroxyethylcellulose~~, carboxymethyl cellulose, cross linked polyacrylic acid, and mixtures thereof.

Claim 8 (currently amended): The composition of claim 7 wherein the retentive agent is hydroxy-propylmethylcellulose, ~~hydroxyethylcellulose~~, carboxymethyl cellulose, and mixtures thereof.

Claim 9 (original): The composition of claim 1 wherein the composition additionally comprises a safe and effective amount of an oral care active agent selected from the group consisting of anticalculus agent, fluoride ion source, antimicrobial agents, dentinal desensitizing agents, anesthetic agents, antifungal agents, anti-inflammatory agents, selective H-2 antagonists, anticaries agents, remineralization agents, whitening agents, antierosion agents, vitamins, minerals, and mixtures thereof.

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Claim 10 (original): The composition of claim 9 wherein the oral care active agent is selected from the group consisting of anticalculus agent, fluoride ion source, antimicrobial agents, anticaries agents, remineralization agents, whitening agents, and mixtures thereof.

Claim 11 (original): The composition of claim 10 wherein the oral care active agent is an anticaries agent.

Claim 12 (original): The composition of claim 11 wherein the oral care active agent is a fluoride ion source.

Claim 13 (original): The composition of claim 12 wherein the level of fluoride ion source is from about 200 ppm to about 300 ppm of fluoride ion.

Claim 14 (original): The composition of claim 1 wherein the solid unit dosage form is a compressed tablet.

Claim 15 (original): The composition of claim 14 wherein the oral carrier is selected from the group consisting of a flavor, sensate, foaming agent, abrasive, buffer, and mixtures thereof.

Claim 16 (original): The composition of claim 15 wherein the carrier is a safe and effective amount of a buffer selected from the group consisting of water soluble buffers, sodium bicarbonate, sodium carbonate, phosphate buffers, amino acid buffers, alanine, glycine, trisodium phosphate, disodium phosphate, disodium hydrogen phosphate, sodium dihydrogen phosphate, tris(hydroxymethyl) aminomethane, tetrasodium pyrophosphate, disodium pyrophosphate, tetrapotassium pyrophosphate, salts of tripolyphosphates, and mixtures thereof.

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Claim 17 (original): The composition of claim 1 wherein the composition is a non-effervescent composition.

Claim 18 (currently amended): An oral care kit comprising:

a. an oral care composition for topical, oral administration in a human or other animal comprising:

1. from about 1% to about 40%, by weight of the composition, of a retentive agent selected from the group consisting of water soluble hydrophilic gums, water soluble hydrophilic polymers, and mixtures thereof, the retentive agent having the property of hydrating upon exposure to water or saliva; and
2. a topical, oral care carrier selected from the group consisting of a flavor, sensate, foaming agent, abrasive, buffer, and mixtures thereof;

b. instructions for use to chew the composition and thereafter brush the teeth and observe the composition visibly on 2 to 3 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 to about 60 minutes after brushing; and

c. a container;

wherein the composition is a non-cariogenic, chewable solid unit dosage form.

Claim 19 (currently amended): The composition of claim 18 wherein ~~the Retention Index is from about 2 to about 4~~ the composition forms an intact hydrated mass that is visible on 4 to 5 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes after a human subject chews two tablets of the composition for about 5 to 30 seconds, brushes his or her teeth for about 30 seconds, expectorates the slurry created from the brushing, and then rinses with about 10 mls of water and expectorates again.

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Claim 20 (original): The composition of claim 18 wherein from about 0.5% to about 20% by weight of the initial composition deposits in some of the tooth surfaces after chewing by the subject.

Claim 21 (original): The composition of claim 18 wherein the retentive agent is at a level of from about 7% to about 30%, by weight of the composition.

Claim 22 (currently amended): The composition of claim 18 wherein the retentive agent is selected from the group consisting of hydroxy-propylmethylcellulose, ~~hydroxyethyl cellulose~~, carboxymethyl cellulose, cross linked polyacrylic acid, and mixtures thereof.

Claim 23 (currently amended): The composition of claim 22 wherein the retentive agent is hydroxy-propylmethylcellulose, ~~hydroxyethyl cellulose~~, carboxymethyl cellulose, and mixtures thereof.

Claim 24 (original): The composition of claim 18 wherein the composition additionally comprises a safe and effective amount of an oral care active agent selected from the group consisting of anticalculus agent, fluoride ion source, antimicrobial agents, dentinal desensitizing agents, anesthetic agents, antifungal agents, anti-inflammatory agents, selective H-2 antagonists, anticaries agents, remineralization agents, whitening agents, and mixtures thereof.

Claim 25 (original): The composition of claim 24 wherein the oral care active agent is a fluoride ion source.

Claim 26 (original): The composition of claim 24 wherein the solid unit dosage form is a compressed tablet.

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Claim 27 (original): The composition of claim 18 wherein the composition is non-effervescent.

Claim 28 (currently amended): A method of buffering the oral cavity saliva or environment on or at the tooth surfaces of a subject in need thereof, to a pH from about 7 to about 12, for at least about 2 minutes, by administering topically to the oral cavity, an oral care composition, comprising:

- a. from about 1% to about 40%, by weight of the composition, of a retentive agent selected from the group consisting of water soluble hydrophilic gums, water soluble hydrophilic polymers, and mixtures thereof, the retentive agent having the property of hydrating upon exposure to water or saliva; and
- b. a buffer; and
- c. a topical, oral care carrier;

wherein the composition is a non-cariogenic, chewable solid unit dosage form and the composition comprises less than about 65% by weight of water insoluble particulates and the composition forms an intact hydrated mass that is visible on 2 to 3 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes after a human subject chews two tablets of the composition for about 5 to 30 seconds, brushes his or her teeth for about 30 seconds, expectorates the slurry created from the brushing, and then rinses with about 10 mls of water and expectorates again.

Claim 29 (original): The method of claim 28 wherein the pH is from about 7.5 to about 10.

Claim 30 (original): The method of claim 28 wherein the level of buffer is from about 2% to about 20% by weight of the composition.

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Claim 31 (original): The method of claim 28 wherein the composition is non-effervescent.

Claim 32 (currently amended): A method of providing sustained delivery of an oral care active, in the oral cavity of a subject in need thereof, for the treatment or prevention of an oral condition alone or for promoting whole body health, by administering topically an oral care composition comprising:

- a. from about 1% to about 40%, by weight of the composition, of a retentive agent selected from the group consisting of water soluble hydrophilic gums, water soluble hydrophilic polymers, and mixtures thereof, the retentive agent having the property of hydrating upon exposure to water or saliva;
- b. an oral care active; and
- c. a topical, oral care carrier;

wherein the composition is a non-cariogenic, chewable solid unit dosage form, the composition forms an intact hydrated mass ~~to provide a Retention Index of about 1 to about 4, that is visible on 2 to 3 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes after a human subject chews two tablets of the composition for about 5 to 30 seconds, brushes his or her teeth for about 30 seconds, expectorates the slurry created from the brushing, and then rinses with about 10~~ mils of water and expectorates again, and the composition comprises less than about 65% by weight of water insoluble particulates.

Claim 33 (original): The method of claim 32 wherein the composition is non-effervescent.

Claim 34 (currently amended): A method of providing sustained delivery of a flavor, sensate or buffer, in the oral cavity of a subject in need thereof, by administering topically an oral care composition comprising:

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- b. from about 1% to about 40%, by weight of the composition, of a retentive agent selected from the group consisting of water soluble hydrophilic gums, water soluble hydrophilic polymers, and mixtures thereof, the retentive agent having the property of hydrating upon exposure to water or saliva;
- c. an oral care active; and
- d. a topical, oral care carrier elected from the group consisting of a flavor, sensate, buffer and mixtures thereof;

wherein the composition is a non-cariogenic, chewable solid unit dosage form, the composition forms an intact hydrated mass ~~to provide a Retention Index of about 1 to about 4,~~ that is visible on 2 to 3 molar or premolar surfaces to greater than 7 molar or premolar surfaces for 5 minutes to about 60 minutes after a human subject chews two tablets of the composition for about 5 to 30 seconds, brushes his or her teeth for about 30 seconds, expectorates the slurry created from the brushing, and then rinses with about 10 mls of water and expectorates again, and the composition comprises less than about 65% by weight of water insoluble particulates.

Claim 35 (original): . The method of claim 34 wherein the composition is non-effervescent.